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Pinetum

FLOWERBULBS

PINETUM GARDENS

E. CRAWFORD JONES

OCEANSIDE PARK, ROCKVILLE CENTER

N.Y.

FOREWORD---To our 1924 Edition

WE WISH TO THANK our many customers for their patronage of the past and to express the opinion that we trust that our relations will be as satisfactory in the future as they have been in the past.

Our policy will continue to be that of placing ourselves in direct, personal touch with our customers, to advise them on the many problems that they may meet and to supply the information which we may be able to give them.

We have found that standardized efficiency methods are not quite compatible with the joy which invariably results when there is either a purchase or a sale of beautiful flowers and we desire to continue this humanized policy no matter how large our business may become.

Kindly remember that we are always ready to serve our customers, whether their orders are large or small.

For 1924 we wish them the garden of their dreams.

TERMS OF SALE

No order accepted for less than $1.00.

Cash with order (your personal check will do) and no deliveries C. O. D., parcel post.

Postage pre-paid on orders for one dozen gladioli or less or other bulbs of similar weight. Larger orders sent charges collect.

All shipments made as soon after February 15 as the weather will permit.

Claims for shortages must be made immediately upon receipt of shipment.

PREMIUMS ON EARLY ORDERS

On all orders received before February 15, 1924, we will include additional gladioli bulbs or dahlia tubers as follows:

5% extra on orders up to $5.00.
10% extra on orders up to $10.00.
15% extra on orders from $10 to $15
20% extra on orders from $25 to $50.

THE FAMOUS "JERSEY" DAHLIAS

JERSEY'S BEAUTY-DEC. Superior pink.
JERSEY'S GEM-DEC. Lavender pink.
JERSEY'S JEWELL-DEC. Mallow pink.
JERSEY'S RADIANT-H. C. Bittersweet orange.
(All the above received certificate of merit, American Dahlia Society, 1923).
JERSEY'S ROSE-DEC. Cerise.
JERSEY'S EMPEROR-DEC. Dark maroon.
Plants and tubers. Limited supply of the above.
Special price on request.

TRIAL FLOWER GARDENS FOR PLEASURE AND PROFIT

Gene Stratton Porter insists that "there are few joys in the world equal to the joy of the garden" but a trial garden maintained by even an amateur hybridizer is the superlative in asthetic and healthful satisfaction. Hybridizing for new colors, new forms and new species will reveal wonders of Nature hardly ever imagined by most persons.

If the trial garden owner spends a part of his day in the city his daily attention to his garden will give him more normal health than the "daily dozen" or any other artificial methods.

An amateur trial garden would be not more than 2,500 gladioli bulbs according to the American Gladiolus Society, beyond that it would be the domain of the professional. The dahlia amateur, of course, works with a much smaller number of plants.

These gladioli trial gardens would cost from $50 to $10,000. We specialize in providing $50 to $100 trial gardens.

A successful gladiolus hybrid should mean profits of $1,000 or more. In dahlias the reward should be even more profitable.

We will be greatly pleased to send information on the subject of hybridizing in gladioli, lilies or dahlias. Anyone that loves flowers can hybridize.

Our IRIS catalogue is ready in June.

We will offer prizes this year for best gladioli garden pictures or gladioli flower arrangement.

THE GLADIOLUS

THE NEW TYPES of gladioli are not very well known. If they were we are quite sure that many other popular flowers would be relegated to a minor position.

These new types possess all the delicate shades of orchids, the gracefulness of lilies and the picturesqueness of iris. In addition gladioli have superior features not applicable to any other flowers; all-season bloom, a life of from ten to sixteen days after cutting and effectiveness under artificial light.

White Wonder

In color shades, variations already extend to more than one hundred even in particularized values such as orange-bronze. The yellows or lavenders are not one shade but innumerable variations.

Each variety has distinct characteristics and as there are several hundred standardized varieties the scope of those who love flowers—and who should love gladioli—is almost unlimited.

In addition there is probably no cultivated flower that is so easy to handle and grow. All they need is a goodly amount of sunlight and soil that has some life in it.

In the end they are also the cheapest in price since even the purchase of two dozen bulbs in one season means the accumulation of a fairly large size collection four or five years later.

NEW INTRODUCTIONS--1924

MARY JEFFERSON (F. R. Jones). Large flowers of a strong, self, light red-orange-bronze, clear yellow to center of flowers. Tall spikes and very vigorous. Extremely effective under artificial light and hybridized chiefly for that purpose. Has most of the good qualities of "Golden Measure" and "Alice Tiplady." Stock very scarce for 1924.

Large bulbs, $125.00 each

RUFFOLACE (Kemp). Somewhat of an entirely new type in gladioli. Flowers are not only gracefully ruffled but beautifully lacinated. Color pure white, four inches in diameter, four to five flowers open at one time on strong spikes three feet high. Awarded silver medal N. Y. Horticultural Society, 1923, as the best new variety.

Ruffolace is shown on the first page

Large bulbs, $100.00.

This is not a catalogue confined to a single grower's originations. It represents the best of nearly every grower. The selections are determined by results at the various flower shows during the year. Prices, also, are what we consider to be "fair."

VEILCHENBLAU (Hopman). Pure blue, strong grower and expected to achieve first position among good "blues." This is a Holland variety and its real character under cultivation in this country is not known so far.

3 large bulbs at $2.50.

ALBANIA (Kemp). A good white. Flowers well spaced on spike, glistening effect; very faint pink mottling.

Half Dozen, $1.50; Dozen, $2.50.

ALICE TIPLADY (Prim. hybrid). Probably the most successful primulinus gladiolus. Orange-copper shading to yellow; true orchid effect. Most effective under artificial light when there is more of a bronze shade. Recommended as the most satisfactory flower for constant house supply. Should bloom twice in one season and is also one of the earliest to bloom.

Dozen, $1.00; 100 at $8.00.

Jumbo Size Bulbs (Special stock).

Dozen, $2.00.

AMERICA (Banning). Soft lavender pink. A good variety when grown properly.

Dozen, 50c; 25 at $1.25; 50 at $2.00.

ANNA EBERIUS (Diener). Dark, velvety purple; throat deeper shade; large flowers on tall spike. Very desirable.

Half Dozen, $1.25; Dozen, $2.00.

ANTHONY B. KUNDERD (Kunderd). Delicate deep cream, over finish blush pink; entire lower petals primrose cream, flushed pink at edges. Flowers heavily ruffled; tall spike.

Each, 50c; Half Dozen, $2.25.

BARON HULOT—Royal blue-purple. Best of the Royal blue-purples and so-called blues. Very effective in contrast with pinks and yellows.

Half Dozen, 50c; Dozen, $1.00.

BERTREX (Austin). Pure, glistening white with pale lilac flakes on lower petals; very tall and vigorous. Early.

Half Dozen, 75c; Dozen, $1.50.

BYRON L. SMITH (Kundred). Delicate lavender-pink on white ground. Very orchidy and a great favorite.

Half Dozen, $1.50; Dozen, $2.50.

BUTTERBOY (Kundred, hybrid prim.). Buttercup yellow, nicely spaced; tall and strong plant. One of the best yellows.

Half Dozen, $2.50.

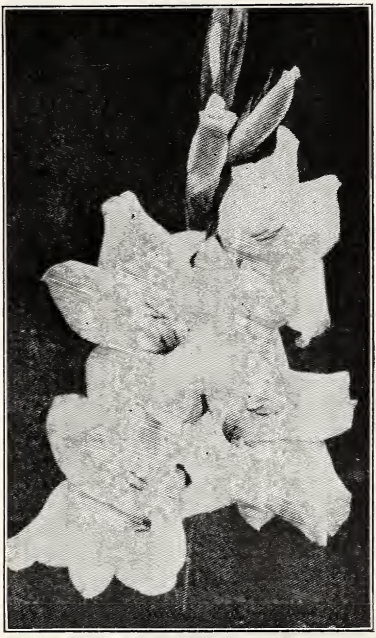
BUTTERFLY (Prim. hybrid). Large, pale, salmon-yellow, ruffled.

Half Dozen, $2.00.

PINETUM $5 PRIM. HYBRID SPECIAL. 125, selected, large size bulbs; practically all the colors comprised in these varieties, including one dozen Alice Tiplady and Souvenir. One of our most satisfactory mixtures.

BUTTERCUP (Prim. hybrid). Nankeen yellow, narrow crimson stripe lower petals. Graceful, tall spikes; very attractive.
Dozen, 70c; 50 at $2.25.

BRENCHLEYENSIS (Yowell, 1844). An old favorite. Brilliant vermilion-scarlet. Desirable for mass planting.
Dozen, 50c; 50 at $2.00.



Pink Wonder

CATHARINA (Velthuys). Blue-gray; lower petals deeper blue with brownish red spot. very desirable.
Each, 50c.

CAPT. BOYNTON (Boynton). Light lavender, purplish-red spot. Large flowers. The best lavender at the 1923 American Gladiolus Society Show.
Each, $1.25; Half Dozen, $5.00.

BLUE JAY—Light grayish-blue, red stripe on lower petals.
Dozen, $1.00.

BLUE BIRD—See Duchess of York.

CONSPICUOUS—Beautiful blue-gray with darker with yellow butterfly blotch. Odd and striking.
Dozen, $1.50; Half Dozen, $1.25.

CRACKER JACK—One of the oldest varieties, but still a favorite. Rich, velvety dark red, throat spotted maroon on yellow ground.
Dozen, 50c; 50 at $2.50.

DIANA—A new rich, mellow, blood red. Shade is distinctive and it is a sensation among gladioli experts.
Half Dozen, $1.50.

CRIMSON GLOW (Betscher). Large brilliant crimson; probably the most effective of this color. Generally a prize-winner.
Dozen, $2.00; Half Dozen, $1.25.

DIENERS' WHITE. Milk white with faint tinge of pink in throat.

Each, 50c.

DUCHESS OF YORK. Seedling of Baron Hulot but greatly improved, flowers much larger. This is a prize winner in Holland shows but is still somewhat scarce in this country.

Half dozen, $1.75; Dozen, $3.00.

EVELYN KIRTLAND (Austin). Attractive shade of rose-pink, darker at the edges, fading to shell-pink in throat with brilliant scarlet blotches on lower petals. A glistening, sparkling lustre on all the flowers. Tall, graceful spike.

Dozen, $1.00.

E. J. SHAYLOR (Kundred). Pure, deep rose-pink. Tall, strong plant with large flowers. Certificate of Merit, Royal Hort. Society, London.

Half Dozen, $1.50.

EARLY SNOWFLAKE (Kemp). Mr. Kemp's description: "A very tall growing variety, attaining a height of five feet and over, and often producing 23 large, perfect, lily-like flowers to the spike, many six inches in diameter. The color is a rich, creamy white, delicately tinted and flaked rose, with tinge of yellow in the throat, blended with delicate rose feathering on rear half of lower petals."

Early Snowflake

Half Dozen, 75c; Dozen, $1.50.

ELORA (Burbank). Creamy white, cream spots in throat overlaid with delicate pink.

Half Dozen, $1.00; Dozen, $1.50.

EUROPA (Pfitzer). A large, pure-white, that wins prizes wherever shown. Requires special attention when growing and is only recommended for careful growers.

Dozen, $1.50.

FLORA (Velthuys). Strong, light gold-yellow.

Half Dozen, $1.00.

FRANK J. SYMMES (Diener). Peach red, lower petals shading into flame and deep crimson. Small spot on silver near throat.

Half Dozen, $1.00.

HENRY FORD (Diener). Purple; a super-Anna Eberius.

Each, $5.00.

GEORGE PAUL (Lemoine). Deep, velvety "Harvard" crimson on vigorous spike: free bloomer. One of the best of the reds.

Half Dozen, 50c; Dozen, 75c.

GERMA—Soft, pure, yellow, edged with rose. Perfect spike; robust grower.

Half Dozen, 60c; Dozen, $1.00.

GERALDINE FARRAR (Diener). Originator's description: "Clear deep sky-blue, with small dark blue spot on lower petals; large flowers and probably one of the most vigorous plants among gladioli—throws four side spikes on main spike and two extra spikes from the same 'eye.'"

Each, $30.00.

GLORY OF KENNEMERLAND (See Roem Von Kennemerland.)

GOLDEN WEST (Wilmore). Clear orange scarlet; lower petals marked golden yellow; all petals edged and tipped, pale yellow.

Dozen, 50c; 25 at $2.00.

GOLDEN KING (Black). Golden yellow, intense crimson throat blotch.

Dozen, 50c; 25 at $2.00.

GOLDEN MEASURE (Kelway). The supreme achievement in gladioli culture. Tall, extra vigorous spikes of a true, golden-yellow; the only true yellow produced so far. No other gladiolus is of the size and majestic effect of this variety. It is the first reliance among hybridizers.

Award of Merit, Royal Horticultural Society, 1908.

First Prize, National Gladiolus Society, 1912.

First-class Diploma, North of England Horticultural Society.

First-class Certificate, N. G. S., 1913.

Prizes wherever exhibited in this country.

Each, 50c; Half Dozen, $2.00; Dozen, $3.75.

GOLDEN BUTTERFLY (Prim. hybrid). Canary yellow, lower petals, deeper shade; wide open flowers and butterfly form.

Half Dozen, $1.50.

GOLD (Hoeg). Very successful, deep yellow. Considered next best to "Golden Measure." Stock scarce.

Each, $1.00; Half Dozen, $4.00.

GOLD DROP (Kundred, prim. hybrid). Deep yellow, fine red line on lower petals. Finely ruffled.

Half Dozen, $1.25; Dozen, $2.00.

$1 **PRIMULINUS HYBRID SPECIAL.** Twenty-five blooming size; yellow, orange, bronze, rose and apricot colors. Earliest to bloom and graceful spikes.

GOLIATH—Deep, purplish wine color; large, vigorous grower and early bloomer.
Half Dozen, 75c; Dozen, $1.00.

GRETCHEN ZANG (Austin). Soft salmon-pink, deepening to full salmon on lower petals. Very popular.
Half Dozen, 75c; Dozen, $1.00.

HERADA (Austin). Pure, medium, solid lavender. Conspicuous among all varieties and a highly satisfactory flower.
Dozen, 75c; 50 at $2.75.

HALLEY (Velthuys). Salmon pink, long, graceful spikes. Early.
Dozen, 50c; 25 at $2.00.

HELEN FRANKLIN (Kundred). Pape white with slight pencilings in throat. Ruffled.
Dozen, $1.50.

IDA VAN (Kundred). Deep salmon-red, flame, high-light effect. Very attractive.
Dozen, 50c; 50 at $2.00.

JACK LONDON (Diener). Last season's stock is not offered for sale.

JACOBA VAN BEIEREN (Heemskerk). Glowing all-violet; on erect spike; flowers well arranged. Good grower.
Each, $1.50.

KUNDERDII GLORY—Creamy apricot with thin red markings on lower petals. Ruffled. Spikes 5 feet high under careful cultivation. One of Kundred's best and somewhat similar to "Pride of Goshen."
Dozen, $1.00.

LA COURONNE (Lemoine). Creamy yellow, lower petals shading to deep yellow; blotched and strippled, brilliant scarlet. Very impressive in a solid bouquet.
Each, 25c; Half Dozen, $1.25.

LE MARECHAL FOCH (Van Deursen). Clear pink; large, wide open flowers. Early bloomer.
Dozen, 50c; 100 at $5.00.

LILYWHITE (Kundred). A good early-blooming, all white. Excellent for group planting.
Dozen, $1.50.

LOUISE (Wright). Clear, pure lavender, blotch of red toward the center; second best lavender A. E. S. Show, 1923.
Dozen, $1.75.

LUCIE (Hopman). Good, pure, soft yellow.
Dozen, 75c; 50 at $3.75.

MARSHAL FOCH (Kundred). Delicate salmon-pink, deepening toward the petal edges and brighter in the throat; almost a self-color. Very large flowers, many open at a time, on tall, strong, straight stems. Prize winner at several shows.
Dozen, $2.50.

MR. W. H. PHIPPS (Diener). Flesh-pink, overlaid with light salmon-rose; small ruby stripe on lip of lower petal. Immense flowers on tall spike, many open at one time.
Half Dozen, $1.50; Dozen, $2.50.

MAIDEN'S BLUSH (Prim. hybrid). Coral pink, strong grower; frequently three spikes from one bulb. A "must" in every good collection.
Dozen, $1.00.

MARY PICKFORD (Kundred). Delicate creamy white with light yellow in throat; early and superior for forcing.
Half Dozen, $1.00; Dozen, $1.50.

MARY STEARNS BURKE (Diener). Canary yellow; overlaid with apricot, deep canary center; tall, thin spikes. (See "Soleil D'Or.")
Dozen, $2.50.

MARY FENNELL (Kundred). Deep lilac, shading paler with soft primrose yellow throat. A most effective color combination and very orchidlike.
Dozen, 75c.

MARIE KUNDERD (Kundred). Early, pure white with almost invisible soft pink line in center of lower petals.
Each, $2.50.

MONA LISA (Kundred). Pale, soft rose or blushed white. Strong plant with profuse bloom.
Dozen, $1.50.

L'IMMACULEE (Dutch origin). A tall spike with pure white flowers of a wax-like texture. Larger spike than "Europa." Early; good multiplier.
Dozen, $1.50; 50 at $4.00.

MRS. H. E. BOTHIN (Diener). Flesh salmon-pink, flame scarlet center. Heavily ruffled. Unusually hardy with upright spikes.
Dozen, $2.00.

MRS. FRANCIS KING (Coblentz). Tall flame scarlet.
Dozen, 50c; 25 at $2.00.

MRS. WATT (Crawford). Tall American beauty.
Dozen, 50c; 25 at $2.00.

L'Immaculee
When grown correctly; otherwise just "junk."

MRS. WATT (Crawford). Tall American beauty shades of wine-red; self-color. Very desirable.
Dozen, 60c; 50 at $3.00.

MRS. DR. NORTON (Kundred). Silvery white, delicately tinted pink, deeper towards the edges; lower petals sulphur yellow, speckled tyrian rose. A sensational color achievement and a prize-winner.
Half Dozen, $1.50; Dozen, $2.50.

MRS. FRANK PENDELTON, Jr.—An older variety but still very popular. Bright rose-pink with red blotch in throat.
Dozen, 75c; 50 at $3.00.

MRS. FREDERICK C. PETERS (Fischer). Rose-lilac with crimson blotch, bordered white on lower petals. Flowers large, many open at a time, on strong spike. Good green foliage; orchid effect.
Half Dozen, $3.00; Dozen, $5.50.

MRS. G. W. MOULTON (Kundred). Giant violet red-cerise. Blossoms well placed on good spike.
Dozen, $1.75.

MRS. LEON LOUGLAS (Diener). Begonia-rose, stripped with flame and brilliant scarlet, lip, pale lemon slightly speckled with ruby. This is supposed to be largest gladiolus in existence as regards size of flower, and spike. Very much in demand for hybridizing.
Each, $2.50; Half dozen, $12.50.

MRS. WM. KENT (Diener). Light fawn to light ashes of roses; old rose throat, sometimes lightly striped rose-pink. Delicate color effect.
Half Dozen, $1.25.

MR. MARK (Velthuys). Light blue with lighter blotch.
Dozen, $1.00.

MYRA (Kundred, prim. hybrid). Deep salmon over yellow ground; yellow throat with pink lines. Extra large spike and flowers. One of the best primulinus hybrids.
Half Dozen, $2.00.

MYRTLE (Kundred). Rose-pink, dissolving softly into a throat of clear, creamy white. Flowers daintily ruffled. Regarded by many as the best Kundred variety. Prize winner Mass. Horti. Society.
Half Dozen, 60c; Dozen, $1.00.

MURIEL (Pfitzer). Orchid blue with darker shading in throat.
Half Dozen, $2.00.

NEOGA (Kundred). Dark garnet, deeper throat, half ruffled. A rare dark shade.
Half Dozen, 50c; Dozen, 80c.

NIAGARA (Banning). Light crocus yellow; good for bouquet purposes.
Dozen, 75c.

NORA (Velthuys). Lavender blue, dark spot, lower petals.
Half Dozen, 75c; Dozen, $1.00.

ORANGE BRILLIANT (Cave, hybrid prim.). Brilliant orange; tall spikes; medium size bloom. Very effective and popular wherever shown.
Dozen, 80c; 25 at $2.00.

ORANGE GLORY (Kundred). Superior ruffled orange with lighter throat. Large flowers, open full on tall, graceful spike.
Each, 30c; Half Dozen, $1.50; Dozen, $2.75.

PANAMA (Banning). Strong lavender-pink.
Dozen, 60c; 50 at $4.00.

PEACE (Groff). Good white with purple stripe.
Dozen, 50c; 50 at $2.00.

PINK WONDER (Kemp). Supreme among pink colors. Light lavender-pink, yellow shading at base of lower petals overlaid with rose feathering. First prize, Boston and New York, 1921.
Each, 30c; Half Dozen, $1.50; Dozen, $3.00.

PINK PERFECTION (Hopman). True La France pink. Spike bends.
Dozen, 50c; 25 at $2.00.

POLA NEGRI (Diener). Apricot with clear wellow lip. Ruffled, shading into rose and salmon on outer edges. A very popular variety.
Each 75c.

PRINCE OF WALES (Kelway). Clear grenadine pink with throat markings of deeper tone. Petal tips apricot buff. Ten blooms open at one time. A good variety but much degenerated through excessive forcing. We have a good strain and
Dozen, 75c; 50 at $2.50.

PRIDE OF LANCASTER (Kundred). Brilliant orange-salmon, fiery deeper orange throat. Tall spike, massive bloom with many open at same time. Beautifully ruffled.
Half Dozen, $1.50; Dozen, $2.50.

PRIDE OF GOSHEN (Kundred). Large ruffled, salmon-pink. One of the best Kundred achievements.
Half Dozen, 50c; Dozen, 75c.

PRIMUNELLA (Kundred prim. hybrid). Delicate shade of yellow on graceful stems. Attractive prim.
Half Dozen, $1.00; Dozen, $1.50.

PURPLE GLORY (Kundred). Deep velvety maroon red, almost black blotches. Beautifully ruffled.
Each, 75c; Half Dozen, $3.75.

PINETUM $5 GROUP PLANTING SPECIAL. 100. first size bulbs, divided as follows: 25 Panama (lavender pink); 25 Schwaben (strong yellow); 25 L'Immaculee (pure white); 25 Cracker Jack (dark red with oriental blotch).

RED EMPEROR (Hopman). Pure, deep scarlet; immense flowers, well placed on tall spike. A magnificent flower.
Half Dozen, 75c; Dozen, $1.00.

RED EMPRESS—Somewhat superior to "Red Emperor" as regards substance, but flowers are not so large.
Half Dozen, $1.00; Dozen, $1.50.

RED CANNA—Effective dark red and one of the tallest gladiolus.
Half Dozen, 50c; Dozen, 75c.

REMBRANDT (Prim. hybrid). Brilliant light red edging into scarlet with small pale yellow stripe on lower petals. One of the best prim. hybrids for color.
Half dozen, 75c; Dozen, 1.25.

RICHARD DIENER. Pure salmon-rose; suggestion of ruby on creamy yellow center. A true flame color and one of the best Diener originations.
Each (No. 1), $3.50; (No. 3), $3.00.

ROEM VON KENNEMERLAND (Velthuys). Deep pink, yellow blotch at base of lower petals. Very large flowers and extra good keeper. Desirable for hybridizing purposes. With "Golden Measure" it is the hardiest gladiolus. Also known as "Glory of Kennemerland" and "Mrs. Keur."
Dozen, 75c.

ROSE ASH (Diener-Metzner). A new color. Corinthian red blending into ashes of rose on outer edges; lower petals light yellow speckled with ruby.
Each, 50c; Half Dozen, $1.80.

ROSE 1910 (Kundred). Pure rose-pink, narrow pencilling of white on mid-rib of lower petals. Very early and desirable also from this basis.
Dozen, $1.00.

ROSE GLORY (Kundred). Large, ruffled; pure rose-pink shading to deeper rose in throat.
Half Dozen, $1.00; Dozen, $1.50.

SALMON BEAUTY (Kundred, prim. hybrid). Deep salmon and rich salmon-yellow throat. A very beautiful color.
Dozen, $1.50.

SCARLANO (Kundred). Light orange-red. Very brilliant. Good for hybridizing.
Dozen, $1.50.

SCHWABEN (Pfitzer). The third best yellow. Lighter than "Golden Measure."
Dozen, 50c; 50 at $2.00; 100 at $4.50.

SOUVENIR (Jonkheer, prim. hybrid). Good, self-canary yellow and a most beautiful primulinus effect.
Dozen, $1.50.

PINETUM $1 SPECIAL. 6 America (light pink); 6 Cracker Jack (dark red); 6 L'Immaculee (pure white); 6 Schwaben (good yellow).

SOLEIL D'OR (Kemp). Canary-yellow blending to salmon-pink and an apricot color effect in center of petals. A sea-green shade appears in buds much before period of bloom. Spikes tall and about the easiest to cut of any gladiolus variety. Color effect about the same as "Mary Stearns Burke," only much more brilliant.

Dozen, $1.00; 25 at $2.00.

THOMAS T. KENT (Diener). Rose-pink with ruby color through center of each petal.

Half Dozen, $1.00; Dozen, $1.75.

TOPAZ (Kundred prim. hybrid). Stunning salmon-pink and buff color effect. Titanic; enormous lilac-purple with thin white line through center of lower petals; wide, open flowers. A superior and worth-while addition to the best collections.

Half Dozen, 50c; Dozen, $1.00.

UHLAN CHIEF (Kundred). Intense, brilliant vermilion-scarlet, flowers on tall, graceful, slender spike; lower petals deeper shade with dark feathered effect.

Each, 50c; Half Dozen, $2.50.

VESTA TILLEY (Kreage). Vivid pink, with small violet blotch; striking color result.

Half Dozen, 75c; Dozen, $1.00.

WHITE WONDER (Kemp). Pure white, extra large flowers. This is the leading white on account of its largeness and easy culture. First prize, New York, 1922; first prize, Boston.

Each 30c; Half dozen, $1.50; Dozen, $3.00.

WILLIS E. FRYER (Kundred). Dark cardinal red with yellow blotch. Large, majestic variety.

Each, 10c; Dozen, $1.00.

YELLOW HAMMER (Prim. hybrid). Pure, soft, creamy yellow on slender spikes.

Dozen, 50c.

YOUELL'S FAVORITE (Kundred). Ruffled. Brilliant rose-lavender-pink. Large flowers and plant.

Half Dozen, $1.00; Dozen, $1.75.

TWILIGHT (Kundred). Creamy white, flushed pink, with throat of blended pink and yellow. A Kunderdii ruffled and one of the best.

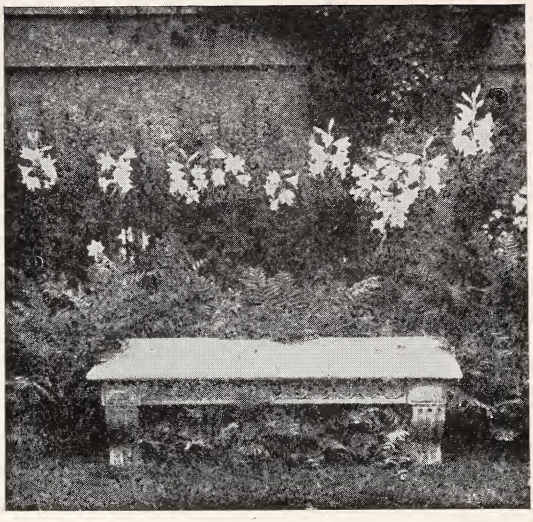
Each, 35c; 3 at 90c.

WHITE GIANT (Von Meerbeek). Holland's best white. Enormous snow-white on tall spikes. Sold on London market as a substitute for the popular Easter lily.

Half Dozen, $1.00; Dozen, $1.75.

WILBRINK (Hopman). Sport of Halley. Delicate, creamy pink, throat markings, salmon pink.

Dozen, 50c; 25 at $2.00.



Pinetum Hardy Garden Lilies

CONTRARY to popular opinion, most lilies are hardy and can be used effectively for group planting and especially when mixed with shrubbery. They require fairly well drained soil and this can be assured if a cushion of sand or sphagnum is used when they are planted. Most varieties prefer partial shade with fairly moist soil (but not wet soil).

A vital distinction is that some lilies are base rooting and others stem rooting. The latter must have plenty of top covering and should be planted fairly deep; the base rooting varieties (habits about the same as most bulbs) can be planted at about twice the diameter of the bulb and require no concern about surface protection.

Most varieties should be planted in October or November, but early Spring planting is just as good and sometimes better. All but the very hardy varieties should be protected from high winds.

CANADIAN BELL FLOWER (Canadense). Bright yellow; black spots. A native lily. Three feet high; June, July.

Each, 20c; Dozen, $2.00.

CANADENSE RUBRUM. Crimson, spotted black. June and July.

Each, 25c; Dozen, $2.50.

HIMALAYAN LILY (Gigantum). White with green tinge and shaded purple inside. Popular florists' variety. Height, 10 feet. Immense tube-shape blooms. July-August.

Large bulbs, 75c.

GOLDEN-RAYED LILY (Auratum). Pure white, freely marked with crimson spots and with clear, golden band through center of each petal. Four feet. Stem rooting.

Large bulbs, 50c; Dozen, $5.00.

PANTHER LILY (Paradilnum). Scarlet shading to yellow; spotted maroon. Flame colors and highly effective in group plantings. Three feet. Blooms for several weeks.

Each, 25c; Dozen, $2.50; 100, $20.00.

HENRYI (Yellow speciosum). Rich apricot-yellow, spotted brown. Vigorous and easiest to grow. Height, generally 6 feet. August-September. Stem rooting.

Each, 75c; Dozen, $6.50.

(Continued on page 21)

THE DAHLIA

THE DAHLIA APPEARS to have won supreme honors during 1923 as the most popular cultivated flower. It is however, an Autumn-period flower and probably will always remain so. In the past year the season was a long one and results were highly satisfactory and this, no doubt, will encourage increased interest this year.

Attraction (Hybrid Cactus)

The dahlia is a comparatively easy flower to grow and hardly ever shows bad results unless too much fertilization is used in the wrong way.

Many Dahlia prices make them prohibitive to a large number of flower-lovers and in a large number of instances, these prices are without justification. Just the same some of the most beautiful varieties are cheap and we certainly would prefer to grow these varieties in large groups rather than the $25 and $50 varieties sparsely. The grower of one or two of a variety hardly ever becomes really acquainted with what he is growing: Nature is profuse rather than restrictive.

The varieties presented here are the selections determined by their popularity in the various Dahlia shows during the 1923 season.

A.—Cactus Incurved.

20. **F. W. FELLOWS** (Brilliant orange-terra-cotta).
An old favorite but a leader in all exhibitions. Large bloom, long, narrow petals. Strong stems. Price, 75c. 3 for $2.00.

22. **CRYSTAL** (Light pink with white at ends). A charming type of the incurved cactus. Price, 50c; 6 at $2.50.

26. **MARJORIE CASTLETON** (Bright soft rosy pink, tinted lilac). Hardy and fast grower. Price justifies planting. Each 35c. Half doz. $1.70.

24. **PIERROT** (Rich amber, tipped white at ends). Profuse bloomer and grower. Price, 75c. 6 at $4.50.

B.—Cactus Hybrids.

40. **ATTRACTION** (Light, clear, self-lavender). Winner at most shows in this country and Europe. An old variety but still supreme. Strong grower; good bloomer; very strong stems. A "should" in all good collections. Price, 75c. 6 at $4.50.

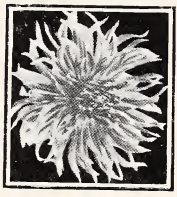
41. **BALLET GIRL** (Orange and white). Large flowers, free bloomer. Price, $1.00; 6 at $5.00.

42. **BIANCA** (Rose-lilac, white at center). Free flowering on strong stems; flowers four to five inches across without forcing. A favorite in all dahlia shows for 1923. Price, 75c. 6 at $4.50.

44. **COUNTESS OF LONSDALE** (Salmon-red, amber tinted).
One of the older varieties, dwarf in height, but a profuse and constant bloomer and highly desirable as a garden variety and as a table supplier. Type is somewhat semi-decorative-hybrid-cactus. Price, 25c; 6 at $1.00.

46. **ETENDARD DE LYON** (Good purple-cerise; self).
Another established standard. Good bloomer, fairly large flowers. Price, 75c; 6 at $4.00.

47. **GLADYS SHERWOOD** (Pure white).
Large flowers on strong stems. The most desirable hybrid cactus. Price, $2.00.



Pierrot
(Incurved Cactus)

48. **GOLDEN WEST** (Old gold, suffused, soft pink).
Large flowers, generally 5 inches across. One of the California leaders. Price, 75c; 6 at $2.50.

49. **KALIF** (Pure, rich, scarlet).
Monster blooms on strong stems. Low-price but a leader. Price, 85c; 6 at $4.50.

50. **J. H. JACKSON** (Velvety maroon, shaded black-red).
Attractive for its unusual color. Price, 6 at $2.00.

52. **J. B. RIDING** (Yellow shading to orange and tipped with apricot).
Larger flowers, good habits. Price, 50c; 6 at $2.50.

54. **MARIPOSA** (Delicate pink, violet suffusion).
An exhibition flower of considerable vogue. Price, $4.50.

56. **MRS. CHARLES H. BRECK** (Primrose yellow blending to rose-pink).
A general favorite. Price, 50c; 6 at $2.50.

58. **MRS. HENRY R. WIRTH** (Intense scarlet).
Habits and shape somewhat akin to "Countess of Lonsdale." Also desirable for garden and for reliable table decorative supply. Price 25c; 6 at $1.00.

60. **RED CROSS** (Scarlet and gold).
Large flowers, strong stems and a good exhibition variety. Price, $1.00; 6 at $5.00.

62. **VIOLETTA** (Petunia violet).
A Waite achievement and really a most stunning color and flower result. Price, $7.00.

C.—Decorative Type.

80. **AMUN RA** (Orange-copper shading to gold and amber; rich, dark-reddish bronze in center).
Gold medal winner. Very large and vigorous grower and a new variation in shape. Price, $4.50.

82. **EARL WILLIAMS** (Brilliant crimson and white).
Still among the best on account of size, color and habits. Price, $3.50.

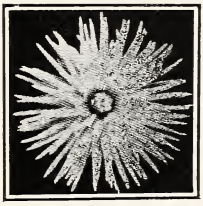
83. **F. A. WALKER** (Pale, rosalene purple). Large flowers and sturdy. Price, Half doz. $1.25; Doz. $2.25.

84. **GLORY OF NEW HAVEN** (Pinkish mauve shades).
Fairly recent and of a striking color and form effect. Price, $1.00.

85. **INSULINDE** (Rich golden orange).
Very large flowers and in color a conspicuous leader among all dahlia varieties. Prize-winner in Europe and this country. Price, $1.75.

86. **JERSEY'S KING** (Carmine).
Very large and extremely attractive. Price, $4.50.

88. **JERSEY'S PRIDE** (Yellow, amber and pink).
Enormous flowers; long, strong stems. Certificate, A. D. S. Price, $4.50.



Marjorie Castleton

90. **JERSEY'S QUEEN** (Coral pink).
Excellent form and large flower. Price, $4.50.

92. **JERSEY'S GIANT** (Soft, lemon yellow).
Perfect form and giant flowers. Price, $4.50.

93. **JUDGE MAREAN** (Salmon-pink, orange and yellow).
Sturdy grower, free bloomer. Considered one of the best by most collectors. Price, $3.50.

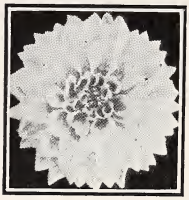
93a. **KING OF AUTUMN** (Buff-amber). Very high, wiry stems of excellent keeping qualities and popular for commercial use. Each, 75c; 6 at $3.50.

93b. **KITTIE DUNLAP** (American beauty rose color.)
A famous Bessie Boston creation. Winner first prize best 50 blooms, San Francisco show, 1922. Immense size flowers and substance on extra strong and erect stems. Blooms freely throughout the season. Each, $3.00.

93c. **MARY C. BURNS** (Old gold, reverse of petals, dull red.)
Large flowers. A sensational color effect. Each, $1.75.

94. **MEPHISTOPHECLES** (Vivid scarlet).
A remarkable dahlia achievement; especially for color and size. Price, $4.50.

96. **MRS. CARL SALBACH** (Good lavender shade with golden yellow at petal ends).
Giant size and very popular. Price, $1.50.



Decorative Type

97. **MINA BURGLE** (Rich scarlet).
The old but ever favorite. Can be cultivated to attain giant size. Belongs in every good collection. Price, 50c; 6 at $2.50.

98. **MINNIE McCULLOUGH** (solid yellow with bronze at tips).
Another old favorite. Popular with florists and nearly all dahlia growers; hardy and profuse bloomer. Price, 25c; 6 at $1.00.

99. **MRS. I. DE VER WARNER** (Soft orchid shading to mauve pink).
Extremely strong grower; large and free bloomer and excellent shape. Generally a prize-winner. Price, $4.50.

100. **PATRICK O'MARA** (Solid yellow).
Large; prize-winner, American Dahlia Show, 1920. Price, 75c; 6 at $4.00.

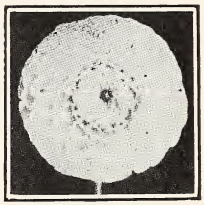
102. **PRESIDENT WILSON** (Brilliant scarlet, white tips).
A sensational novelty and rather effective color combination. Price, $2.50.

101. **PAUL MICHAEL** (Gold).
Also known as "California Gold." An exhibition flower of considerable excellence. Price, $2.50.

103. **SENORITA**—(Rich, velvety crimson.)
Each bloom absolutely erect on very strong stems. Flowers from 9 to 10 inches across. Profuse bloomer. A leading prize winner in 1922 shows. Each, $3.50.

104. **PRINCESS PAT** (Old rose.
A very attractive variety, especially among leading women dahlia growers. Price, $1.50.

106. **THE EMPEROR** (Maroon).
Another Marean achievement. Enormous bloom and a general prize-winner. Price, $4.50.



Show Type

104. **PRINCESS PAT** (Old rose).
A very attractive variety, especially among leading women dahlia growers. Price, $1.50.

106. **THE EMPEROR** (Maroon).
Another Marean achievement. Enormous bloom and a general prize-winner. Price, $4.50.

107. **THE GRIZZLY**—(Dark, velvet maroon.)
This is the famous Burns creation. Extra large flowers and high, strong stems. Petals turn backward giving a shaggy effect. Each, $2.00.

108. **VENUS** (Creamy white with lavender suffusion).
Large flowers, strong stems and a most beautiful variety. Price, $2.50.

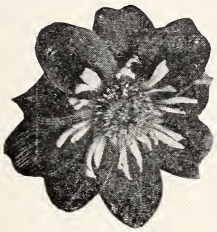
Peony Type

E.—Peony and Duplex Types.

110. **AUTUMN GLORY** (Bronze-cinnamon, suffused, terra-cotta). Very graceful and attractive; free bloomer. Each, $2.50.

111. **JANET**—(Bright bordeaux, red, golden yellow center.)
A large peony type, flowers and stems. Hardy and superior for cutting. Prolific bloomer throughout long season. Recommended. Half doz., $1.50. Doz., $3.00.

112. **EDITH WOOSTER** (Tea-rose, red and yellow). Very popular. Each, $2.00.


Maurice Rivoire

114. **GEISHA** (Orange and red with yellow center.) This is one of the exhibition varieties. Each, 75c; 6 at $4.00.

116. **GOLDEN ROSE** (Yellow, suffused rose). Sturdy; long, strong stems. Each, 50c; 6 at $2.50.

118. **BILLIONAIRE** (Golden orange). Immense flower; superior for exhibition purposes. Each, $1.00.

120. **MARY HOUGHTON** (Mallow purple; yellow-golden center). A dahlia with fragrance; pond-lily suggestion. Each, 25c; 6 at $1.25.

D.—Show or Ball Type.

122. **A. D. LAVONI** (Clear pink). Very prolific and sturdy. Quill effect is about the best of any show type. Each, 25c; Dozen, $2.50.

Century Type

124. **ESTELLE CRISTY** (Clear yellow). Good companion to "A. D. Lavoni." Each, $1.00; 6 at $5.00.

126. **ESTELLE MAUDE** (Pure white). An old favorite. Each, 25c; 6 at $1.25.

E.—Century or Single Type.

JACK (Fiery scarlet; golden-yellow center).
SNOWDROP (Clear white).
UNION JACK (Clear, vivid scarlet, white stripes. Each, 25c; Dozen, $2.50.

F.—Collerrette Type.

ACHIEVEMENT (Velvety maroon; white collar).
MAURICE RIVOIRE (Red with white collar). Each, 35c; 6 for $1.70.

G.—Pompon or Bouquet Type.

AMBER QUEEN (Clear amber, shaded apricot).
ALLEWINE (Lavender-pink).
BELLE OF SPRINGFIELD (Bright rich red).
CATHERINE (Fine pure yellow).
DARKEST OF ALL (Maroon, almost black).
SNOWCLAD (Pure white on long stems).
Dozen, $2.50; mixed or each variety.

GLADIOLI MIXTURES

KUNDERD'S "GLORY MIXTURE"—1923. Grown under special cultivation in our trial gardens. Represents new Kundred varieties. Very desirable for good amateur growers. Stock limited.

100 at $10; Dozen, $1.50.

KUNDERD'S 1922 ORCHID AND GRAND MIXTURES. Grown two years under our best methods and greatly improved. About 5 per cent additional mixture of primulinus specie and Kundred's primulinus hybrids.

100 at $6; Dozen, $1.00.
25 at 100 Rate.

Gladioli Color Classification

(Comprising all the varieties mentioned separately in previous pages. No two varieties are of exactly the same color; they are arbitrarily classified here as approximately the same in color.)

LAVENDER AND ORCHID—Herada, Mary Fennell, Muriel, Capt. Boynton, Mrs. Frederick Peters, Louise, Byron L. Smith, Nora, Catharina.
VIOLET—Geraldine Farrar, Jacoba Van Beiren.
BLUE-GRAY—Conspicuous, Blue Jay, Mr. Mark.
ROYAL PURPLE—Baron Hulot, Duchesse of York.
PURPLE—Purple Glory, Anna Eberius, Elkhart, Henry Ford.
RED (Dark)—Cracker Jack, Mrs. Watt, Red Emperor, Red Empress, Diana, Odin Red Canna, Rosalind.
CRIMSON—Crimson Glow, W. E. Fryer, Uhlan Chief.
WINE RED—Goliath.
YELLOW (Golden)—Golden Measure, Flora, Amy Belle, Butterboy.
YELLOW (With Markings)—Schwaben, Buttercup, Soleil D'Or, Mary Stearns Burke, Gold Drop, Golden King.
YELLOW (Canary)—Golden Butterfly, Lucie, Souvenir.
YELLOW (Cream or Buff)—Yellow Hammer, La Couronne, Niagara, Bertrex.
PINK (Pure)—Mrs. Dr. Norton, Pink Perfection, America, Pink Wonder, Wilbrink, La Marechal Foch.
PINK (Lavender Shade)—Panama.
PINK (Clear with Markings)—Mrs. Frank Pendelton.
PINK (Coral Shade)—Maiden's Blush.
PINK (Salmon Base)—Halley, Prince of Wales, Evelyn Kirtland, Primunella, Richard Diener, Marshal Foch (K), Pride of Goshen, Topaz, Salmon Beauty, Mrs. Francis King.
WHITES (Pure)—White Wonder, Europa, L'Immaculee, White Giant, Lilywhite.
WHITES (Marked)—Albania, Early Snowflake, Helen Franklin, Peace, Diener's White, Marie Kundred, Mary Pickford, Elora.
PINK (Deep)—Rose Glory, T. T. Kent, E. J. Shaylor, Youell's Favorite, Room r Von Kennemerland, Vesta Tilley, Mona Lisa, 1910 Rose, Gretchen Zang.
ORANGE (Red, Burnt and Bronze)—Alice Tiplady, Mary Jefferson, Orange Brilliant, Orange, Glory, Scralano, Golden West.
ORANGE (Salmon Shade)—Pride of Lancaster.
RED (Scarlet Base)—Brenchleyensis.

Other Flower Bulbs

SUMMER HYACINTH

Hyacinthus candicans. Pure white, bell-shaped flowers growing 3 to 5 ft. in height. They contrast elegantly with Gladioli .....Doz. $1.75

TUBEROSES

Albino. Single white.
Mexican. Single white.
Mammoth Pearl. Double white.
First size (4 to in.), $1.00 a doz. 100, $4.50.

OTHER FLOWER BULBS

AMARYLLIS—Special list on request.

BEGONIAS (Tuberous Rooted)

	Each	Doz.	100
Single:			
Rose	30 cts.	$3.00	$16.00
Orange	30 cts.	3.00	16.00
Double:			
Salmon	40 cts.	.....	22.00
Crimson	40 cts.	.....	22.00
Pink	40 cts.	.....	22.00

CALADIUM ESCULENTIUM (Elephant's Ear)

	each	doz.
5 to 7 inches circum	.10	$.75
11 to 12 inches circum	.20	2.00
12 inches and up circum	.25	2.50

Calla Lilies

YELLOW CALLA LILY (Elliottiana). Golden yellow. Each, 65c; Dozen, $5.00.

WHITE CALLA LILY (Aethiopica). Good, solid white. Each, 60c; Dozen, $4.75.

GODEFROYANA. The small white calla lily, very free-blooming. Half dozen, $3.00; Dozen, $5.75.

CANNAS (Dormant Roots Only)

	each	doz.	100
President, good red, 4 ft.	.25	$1.50	$10.00
King Humbert, bright orange-scarlet streaked with crimson	.25	1.25	9.00
Apricot, buff-yellow base with salmon pink tint	.25	2.50	15.00
American Beauty, translucent cerise	.25	3.00	20.00

Complete list on application.

FREESIAS—Special list on request.

HEMEROCALLIS—Special price list on request.

MONTBRETIAS

	Doz.	100
George Davison. Large orange yellow	$1.50	$10.00
Golden West. Pure golden yellow	1.50	10.00
Fire King. Glowing crimson scarlet	1.50	10.00
Hereward. Pure yellow, reverse of petals orange	1.50	10.00

Pinetum Hardy Garden Lilies

(Continued from page 14)

HANSONI. Golden yellow, brown, spots. Three feet. June—July. Each, 75c; Dozen, $6.50.

MANDONNA LILY (Lilium candidum). Pure white. Var. Speciosum is the popular Easter-period variety, which should be avoided for outdoor planting. Four feet. June—July. Each, 40c; Dozen, $4.00.

NANKEEN LILY (Testaceum). Yellowish, delicate apricot. Flowers bloom in a large spreading top-of-stem manner. Price on request.

REGAL LILY (Lilium regale). White; slightly suffused pink with yellow center. One of the most reliable and vigorous. Three to four feet. Good foliage. July. Each, 75c; 6 at $4.00.

THUNBERGIAN LILY (Lilium elegans). Dwarf variety. Prefers open position and in light garden soil.

Var. Batemannii. Beautiful apricot; 6 to 8 flowers. Stem rooting. August. Each, 40c; Dozen, $4.00.

Var. Van Houttei. Rich, deep crimson, dark spots. July. Each, 50c; Dozen, $4.00.

SPECIOSUM (Lancifolium). Probably the most popular in this country among the older varieties. Hardy and of free growth with good branching habits. Fragrant. Height, 3 to 4 feet. Bloom from August to frost.

Var. Album. Pure white. Each 50c; Dozen, $5.00.

Var. Magnificum. White, spotted and clouded and bordered deep inkish-crimson. Each, 75c; Dozen, $6.50.

Var. Rubrum. White, shaded and spotted rosy-crimson. Each, 50c; Dozen, $5.00.

TIGER LILY (Lilium tigrinum). Orange, spotted black. Hardy and native in some parts of this country. Height, 3 to 5 feet. Stem rooting. August and September. Each, 25c; Dozen, $2.00. Double, same price.

PINETUM FLOWERBULBS AND OTHERS

(Reading from the left.) First—An average No. 1 commercial gladiolus. Second—A Pinetum bulb nearly as high as it is broad, a real live bulb ready to "do things." Third—A large bulb but flat—this will throw a good flower spike but its days are numbered. Fourth—One of the "awful" exhibits in a No. 1 by growers who "turn 'em out" by the billions.

How to Grow Superior Gladioli

A VIRGIN, BLOOMING-SIZE gladiolus bulb represents from one to three years of accumulated growth and stored-up energy. This fact should be appreciated when comparisons are made with flower culture originating in the seed stage.

If the bulb is of good quality it will grow under the most adverse conditions. On the other hand too much "petting" and too much fertilizing may interfere with its best development.

We grow some of our best blooms in almost pure sand, not much different to what is found on any seashore. This statement may surprise many professional growers but it is a fact and not a theory. Of course this would be impossible with smaller than blooming sizes.

SOIL. Growers disagree as to soil as much as they do on the question of fertilization. Sandy-loam is generally considered the best but a good grower of the calibre of Mr. Diener believes that "a heavy clay or adobe soil, containing some sand, seems to be the ideal ground for them."

However, as we have emphasized above, if the small grower is confining himself to blooming size bulbs, soil conditions are not important. Soil cultivation is, as we will explain in greater detail. If it is not practical to devote any definite amount of time to such cultivation it will be necessary to prepare the soil as follows:

If it is of a heavy clay character it should be made more porous by adding humus and lime, preferably in the Autumn. If it is purely sandy, humus should be added, but in the early Spring rather than in the Autumn when green manure should also be used. If the soil is clay-loam or sandy-loam (ideal soil) it should be left as it is.

For superior growth a mixture of ground bone meal and dry sheep manure used at the time of planting and at the bottom of a trench 6 inches wide and six inches deep is advisable.

Most soil, however, will take care of blooming size bulbs if the ground has been idle two or three seasons.

For much worked soils large growers get the best results by planting gladioli one season and following this the next, by sowing rye, soy-beans and other nitrogen-gathering crops.

Do not use nitrate of soda.

DEPTH. Most growers advise a depth of four inches but this is to insure protection against high winds when the spikes have reached full growth and to remove the necessity of using stakes. Planted near the surface, however, they will grow better and multiply more prolifically. Some growers also plant deep to encourage root growth, sufficient to withstand long periods of drought. This is also unnecessary if the grower will cultivate the soil and water liberally.

In group planting large size bulbs can be placed five across, one inch apart and in rows three to five inches apart. This would partly protect spikes against high winds. A straight row with bulbs five inches apart would provide easier cultivation but if planted near the surface they should be staked or supported by a string or wire extending the length of the rows if this is the most convenient. They can also be placed in staggered rows, five inches apart in the row, two rows to the trench.

LOCATION. Gladioli want all the Sun they can get but they will withstand cool evenings and are somewhat like carnations in this respect. In group planting, to provide a constant supply for the table and other purposes, they can be planted in the vegetable garden.

DURING GROWTH. Application of the hoe or any other implement to stir up the soil will accomplish much more than the most expensive fertilizers and we are inclined to believe that this method of making the soil "active" solves many problems that are rather vaguely appreciated even in agricultural science. All things that grow need this attention and the gladiolus requires a great amount of water.

Watering in the evening and cultivating in the morning will insure maximum soil activity.

This caution about watering is necessary: On heavy soils do not use at one time any more water than can be quickly absorbed, stagnant water or soil very soggy might tend to set up bulb disease. In sandy-loom, and especially very sandy soils, soil absorption is practically unlimited.

After the flower spike appears be more careful in cultivation and do not cultivate to more than two inches unless five inches from the bulb. In rainy periods do not cultivate and do not cultivate at any time the soil is wet.

BLOOM. To secure the best bloom cut flower spikes when they show the first sign of color as they will open better indoors. Also leave at least three leaves to insure bulb growth.

If the season is backward or if extra results are desired, a weak solution of liquid manure can be used. This will also intensify colors. It should not be used with most light pinks since it will change them to much darker shades.

Scotch soot is also used to intensify colors and weak lime water to clarify delicate shades.

Cut with sharp knife and on a slope rather than across; this provides more porous capacity in the spike. Each time water is changed an additional part of the spike-end should be also cut off. Remove blooms at the bottom when they wither, about every two days. Change water daily, if they droop too much in hot weather add a tablet of aspirin.

TIME TO PLANT. South of Albany it should be feasible to plant gladioli generally as early as April and to have gladioli in bloom from May 25 to the end of October.

The ground, however, must be partly dry or with a little warmth in it but along the Atlantic coast or in the more sandy soils, April sunshine invariably leaves considerable warmth in the soil although the April winds may be fairly cold.

To positively insure bloom with early varities—not the Colvelli forcing varieties, however,—first plantings might be in a cold frame, covering when there is too much rainfall, to prevent a soil that is too cold. Cold-frame planting could be started in March.

The primulinus hybrid type can be planted first for early bloom. "Alice Tiplady," for instance, should bloom in 55 days. The non-primulinus hybrid varieties bloom in from 65 to 110 days, so that all the planting could be done at one time.

It is not really necessary to plant at intervals unless primulinus hybrids are planted for both early and late bloom.

(Our booklet, "The Pinetum Gladioli Bluebook" gives the period of growth for most varieties and will be supplied on request.)

DIGGING AND STORING. When leaves begin to turn brown, or at the end of the season, bulbs can be taken up. They should be left to dry in the Sun for 10 days or in a dry cellar when there is no sunshine. Afterward they should be separated. For collections of not more than 5,000 bulbs heavy paper or burlap bags are very handy in which to store bulbs over the Winter. They should be kept in a fairly dry but well ventilated place with temperature at between 35 to 55 degress.

SEEDS AND BULBLETS. Every grower should and must grow from the seed stage if they wish to hybridize. Seeds can be grown in boxes filled with dirt kept fairly moist at all times.

(We will be pleased to give detailed information on the use of seeds, bulbs and planting stock if requested by our customers.)

Pinetum Three Star
SPECIALS

$5. Three dozen choice, mixed DAHLIAS including one "Insulinde."

$5. 100 Gladioli in choice color mixture as shown below and also 3 famous "Golden Measure."

PINETUM GLADIOLI BY COLORS

(Our own selections—arranged for shade harmonizing and decorative effect.)

No. 1—REDS, PINK AND ROSE:
25 bulbs, $1.25; 50 bulbs, $2.25;
100 bulbs, $4.00.

No. 2—WHITES, BLUES AND YELLOWS:
25 bulbs, $1.50; 50 bulbs, $2.75;
100 bulbs, $5.00.

No. 3—LAVENDERS, ORCHID AND PURPLE:
25 bulbs, $2.00; 50 bulbs, $3.75;
100 bulbs, $6.00.

No. 4—MIXTURE of 25 bulbs from Nos. 1, 2, and 3:
100 bulbs, $4.50.

PINETUM GLADIOLI LOST-LABEL MIXTURE

This is from an accumulation of bulbs of all varieties picked up in the fields and thrown together because identification tags have been lost or because of careless handling. There are many prizes in these mixtures and the patient grower, willing to identify and reclassify when they bloom, will be amply rewarded.

100 at $4.00. Dozen at 75 cents.

25 at 100 rate

(See page 20 for other mixtures)